

WHAT IS CLAIMED IS:

1. An on-demand power-operating door apparatus, comprising:

a door adapted for swinging movement between opened and closed positions; and

a power operator comprising:

5 a motor, and

a linkage operably connected to the motor and arranged to be driven thereby to move the door from the closed position to the opened position, the door being manually swingable from the closed position to the opened position

10 independently of the linkage.

2. The apparatus according to claim 1 further including a first closer spring for returning the linkage; the apparatus further comprising a second closer spring for returning the door.

15 3. The apparatus according to claim 2 wherein the second closer spring is weaker than the first closer spring.

4. The apparatus according to claim 1 further including a framework forming a passage, the door being mounted to the framework.

5. The apparatus according to claim 4 wherein the door is connected to the supporting structure by a hinge structure, the hinge structure defining a stationary vertical axis of rotation at the supporting structure and a movable vertical axis of rotation at the door.

5 6. The apparatus according to claim 4 wherein the linkage comprises an arm having a first end defining a stationary axis at the framework, and a second end arranged to push against a portion of the door.

10 7. The apparatus according to claim 1 further including a manually operable switch for energizing the motor, the switch being accessible to persons positioned to pass through the passage.

8. The apparatus according to claim 1 wherein the linkage includes a roller for bearing against the door.

9. An on-demand power-operating door apparatus comprising:
15 a supporting structure forming a passage;

 a door mounted to the supporting structure by a hinge structure defining a stationary vertical axis of rotation at the supporting structure, and a movable vertical axis of rotation at the door, the door being swingable about the stationary and movable axes
20 between a passage-closing position and a passage-opening position; and

 a power operator for opening the door comprising:

a motor mounted on the supporting structure,

a manually operable switch for energizing the motor and accessible to persons positioned to pass through the passage, and

5 a linkage having a first end operably connected to a drive shaft of the motor to be rotated thereby, and a second end arranged to push against the door, the door being manually swingable from the passage-closing position to the passage-opening position independently of the linkage;

10 a first closer spring for returning the linkage; and

 second closer spring, weaker than the first closer spring, for returning the door.

15 10. The on-demand power-operating door apparatus according to claim 9 wherein the supporting structure comprises a framework attached to a wall.